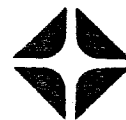


ARCO Metals Company

ARCO Aluminum
Primary Operations
Columbia Falls Plant
P. O. Box 10
Columbia Falls, Montana 59912
Telephone 406 692 3261



November 20, 1984

Mr. Hal Robbins
Air Quality Bureau
Department of Health and
Environmental Sciences
Cogswell Building
Helena, Montana 59601

Dear Hal:

Below are the results of our fluoride analysis on forage samples collected during October 1984. As you can see, the monthly averages at the Doane and Liddle sites are unusually high although still within the standard. We have conducted an examination of our operations prior to the October 10 sampling date but are unable to pinpoint the reason for the high figures. Apparently a number of factors were the cause. These are: downtime on the dry scrubbers due to routine maintenance (quarterly), an extended period of dry weather prior to the sampling date, and unfavorable wind conditions. Contamination may have contributed but we are unable to confirm this.

We resampled the sites on November 6. The results are shown below.

Because the forage at these sites is no longer growing or being used for grazing, we request that the sampling program be terminated for the year.

October Monthly Average

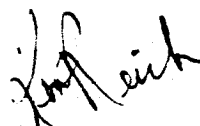
<u>Location</u>	<u>Date Sampled</u>	<u>ppmF</u>	<u>Monthly Avg. ppmF</u>
Doane	October 10, 1984	68]	50
Doane	October 24, 1984	32]	
Doane	November 6, 1984	16	
Liddle	October 10, 1984	64]	43
Liddle	October 24, 1984	31]	
Liddle	November 6, 1984	29	
Hoffman	October 10, 1984	20]	19
Hoffman	October 24, 1984	17]	
Hoffman	November 6, 1984	12	

Grazing Season Average--1984

<u>Date Sampled</u>	<u>Doane</u>	<u>Liddle</u>	<u>Hoffman</u>
May 9	17	10	9
May 23	10	9	7
June 7	5	12	10
June 20	5	5	6
July 11	11	10	5
July 25	9	13	8
August 7	13	22	15
August 22	23	25	15
September 5	10	21	11
September 19	17	34	15
October 10	68	64	20
October 24	<u>32</u>	<u>31</u>	<u>17</u>
Seasonal Avg.	18	21	12

This report fulfills our reporting requirements under ARM 16.8.813.

Sincerely,



Kenneth G. Reick
Environmental Supervisor

KGR:kg

mc: R. A. Sneddon
T. F. Payne
D. F. Ryan